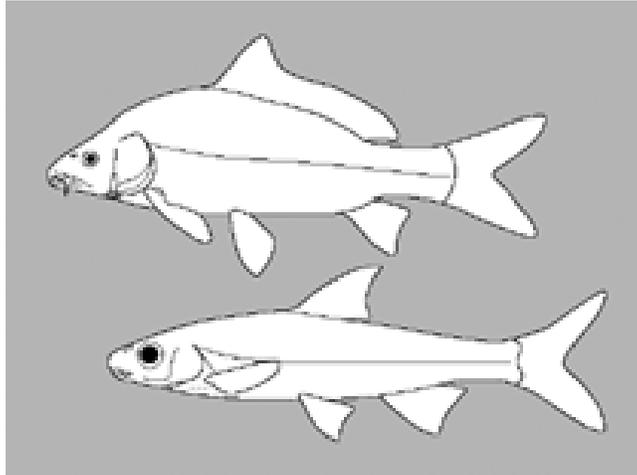


Cyprinus exophthalmus

Ecological Risk Screening Summary

Web Version – 10/01/2012



No image available for this species; drawing shows typical fish in this Family (Froese and Pauly 2011).

1 Native Range, and Status in the United States

Native Range

From Huckstorf (2012):

“The species is presently known only from the Phong Nha-Ke Bang mountain region in the Minh Hoa district, Quang Binh Province, Central Viet Nam (Mai 1978; Ngyuen and Ngo 2001).”

Status in the United States

No known nonindigenous occurrences.

Means of Introductions to the United States

No known means of introductions.

2 Biology and Ecology

Taxonomic Hierarchy and Taxonomic Standing

From ITIS (2011):

Kingdom Animalia
Phylum Chordata
Subphylum Vertebrata
Superclass Osteichthyes
Class Actinopterygii
Subclass Neopterygii
Infraclass Teleostei
Superorder Ostariophysi
Order Cypriniformes
Superfamily Cyprinoidea
Family Cyprinidae
Genus *Cyprinus*
Species *Cyprinus exophthalmus*

Taxonomic Standing: valid

Environment

From Froese and Pauly (2011): “Freshwater; benthopelagic”

Climate/Range

From Froese and Pauly (2011): “Tropical”

Distribution

From Froese and Pauly (2011): “Asia: Viet Nam.”

Human uses

None reported.

Diseases

None reported.

Threat to humans

From Froese and Pauly (2011): “Harmless”

3 Impacts of Introductions

No known impacts of introductions

4 Global Distribution



Figure 1 (above). *C. exophthalmus* is native to the Phong Nha-Ke Bang mountain region in the Minh Hoa district, Quang Binh Province, Central Viet Nam (Huckstorf 2012) but specific geo-referenced data points could not be found for the species. Map from Google Earth (2011).

5 Distribution within the United States

No known distribution within the United States

6 CLIMATCH

Summary of Climate Matching Analysis

The climate match (Australian Bureau of Rural Sciences 2011; 16 climate variables; Euclidean Distance) was high in parts of Florida and low elsewhere. It should be noted that this is a very rough estimate due to no described range beyond the country of Vietnam for *C. exophthalmos*. Climate 6 match indicated that the Continental U.S. has a medium climate match. The range for a medium climate match is 0.0 - 0.005; the climate match of *C. exophthalmos* is 0.0.



Figure 2 (above). CLIMATCH (Australian Bureau of Rural Sciences 2011) source map showing weather stations selected as source locations (red) and non-source locations (blue) for *C. exophthalmus* climate matching. Source locations based on descriptive information from Huckstorf (2012), not geo-referenced data points.

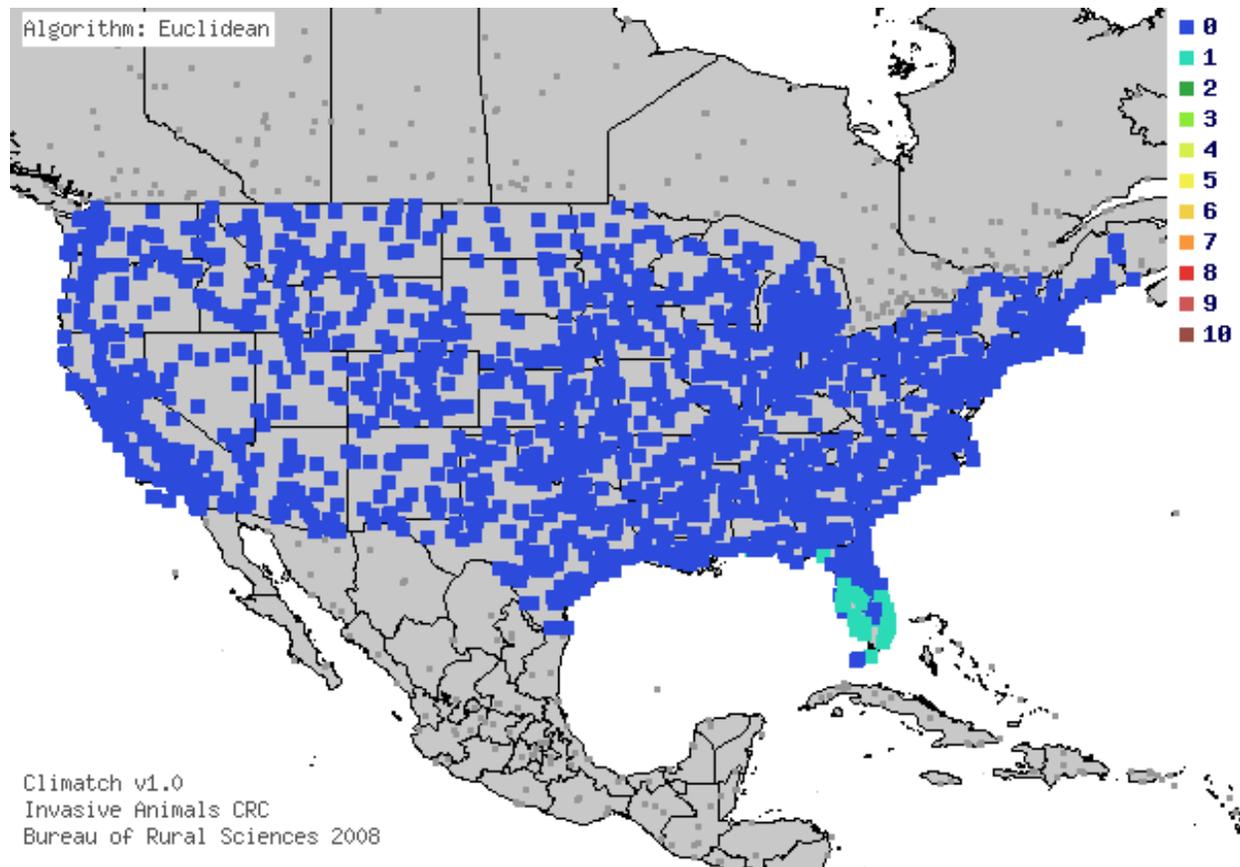


Figure 3 (above). Map of CLIMATCH (Australian Bureau of Rural Sciences 2011) climate matches for *C. exophthalmus* in the continental United States based on source locations reported by Froese and Pauly (2011). 0= Lowest match, 10=Highest match.

Table 1 (below). CLIMATCH (Australian Bureau of Rural Sciences 2011) climate match scores.

CLIMATCH Score	0	1	2	3	4	5	6	7	8	9	10
Count	1904	47	0	0	0	0	0	0	0	0	0
Climate 6 Proportion =	0.0 (Low)										

7 Certainty of Assessment

Peer-reviewed literature on the biology, ecology, and distribution associated with *Cyprinus exophthalmus* as well as information on its potential invasiveness is limited. More information and research on this species will be needed to strengthen the certainty of this assessment. The risk level is therefore uncertain, and the certainty of this risk is low.

8 Risk Assessment

Summary of Risk to the Continental United States

Due to lack of information about *Cyprinus exophthalmus*, the overall risk assessment category is uncertain. Climatch data is an extremely rough estimate because no specific location inside Vietnam was listed for the species. This species is not known to be in the aquarium or aquaculture trades, and has not been introduced outside of its native range.

Assessment Elements

- **History of Invasiveness (Sec. 3):** Low
- **Climate Match (Sec. 6):** Low
- **Certainty of Assessment (Sec. 7):** Low
- **Overall Risk Assessment Category:** Uncertain

9 References

Note: The following references were accessed for this ERSS. References cited within quoted text but not accessed are included below in Section 10.

Australian Bureau of Rural Sciences. 2011. CLIMATCH. Available:
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Froese, R. and D. Pauly (Eds). 2011. *Cyprinus exophthalmus*. FishBase. Available:
<http://www.fishbase.org/Summary/speciesSummary.php?ID=61214&genusname=Cyprinus&speciesname=exophthalmus&AT=cyprinus+exophthalmus&lang=English> (Accessed September 2011).

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http://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=688954 (Accessed September 2011).

10 References Quoted But Not Accessed

Note: The following references are cited within quoted text within this ERSS, but were not accessed for its preparation. They are included here to provide the reader with more information.

Mai, D.Y. 1978. Dinh loai ca nuoc ngot. Gas tinh Phia bac Vietnam [Identification of the freshwater fishes of northern Vietnam]. Tran Hung Dao (Scientific and Technology Publisher), Hanoi.

Nguyen, V.H. and S.V. Ngo. 2001. Ca nuoc ngot Viet Nam. Tap I. Ho ca chep Cyprinidae). [Freshwater fishes of Viet Nam. Volume I. Family Cyprinidae]. Nhà Xuất Ban Nông Nghiệp [Agriculture Publishing House], Hanoi.